

Defense Information Infrastructure (DII)
Common Operating Environment (COE)

**Software Version Description (SVD)
for the
METOC Channels (MDCHNL) Segment
Release 1.1.0.1**

6 July 1999

**Prepared for:
Space and Naval Warfare Systems Command
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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the METOC Channels (MDCHNL) Segment of the METCAST data distribution software, Release 1.1.0.1, developed by Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1 or higher. The software runs under the following hardware and operating systems:

- Sun Enterprise 250 or higher computer running the Sun Solaris operating system, release 2.5.1 or higher.
- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210), or HP K570 or higher running the HP-UX operating system, release 10.20 or higher.

This release provides the DII COE segment for HP-UX 10.20 only. The DII COE release for Sun Solaris will be provided at a later date. This document deals only with the DII COE HP-UX segment.

This document has been developed in accordance with the *DII COE Developer Documentation Requirements, Version 2.0*.

1.2 System Overview

METCAST is a standards-based, request-reply and subscription (channel) system for distributing weather information over the Internet using Hyper-Text Transfer Protocol (HTTP) and Multipurpose Internet Mail Extensions (MIME). The METCAST Server Segment is responsible for processing requests for data from METCAST Clients, interfacing with a database to attempt to satisfy each request, and formatting the retrieved data as specified in the request before returning the data to the client. The METCAST Client comprises a separate segment. The MDCHNL segment provides the Channels database for METCAST Server.

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software were performed at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA, prior to delivery of the software.

1.3.2 Product Restrictions

Intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

1.3.3 Product Dependencies

MDCHNL requires installation of Informix on the server. See the Installation Procedures for details.

The full METCAST Server installation requires three segments: MDCHNL (the METOC Channels segment), MDMETC (the observation database segment) and MCSRVR (METCAST Server itself). **These segments must be installed in the following order:**

1. MDCHNL
2. MDMETC (**NOTE:** This segment requires a later version of the Informix On-Line Dynamic Server (INFXOL) segment than do MDCHNL and MCSRVR. If INFXOL **1.0.2.0**/Informix On-Line Dynamic Server **7.30** is not present on the system, this segment should not be installed. MCSRVR can still be installed, but will not have access to observations.)
3. MCSRVR (must be installed last, but requires MDMETC only if observations are to be processed).

2 REFERENCED DOCUMENTS

2.1 Government Documents

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0</i> , Defense Information Systems Agency, Joint Operability and Engineering Organization
Unnumbered 15 June 1998	<i>Software Requirements Specification for METCAST</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), San Diego, CA
fnmoc_MCSRVR_IP_31Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Server (MCSRVR) Segment, Release 3.1</i>
fnmoc_MDCHNL_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Channels (MDCHNL) Segment, Release 1.1</i>
fnmoc_MDMETC_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Observations Database (MDMETC) Segment, Release 1.1</i>
fnmoc_MDMETC_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METOC Observations Database (MDMETC) Segment, Release 1.1.0.0</i>
fnmoc_METCAST_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_UM_1100 23 April 1999	<i>User Manual (UM) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METCAST Client Segment, Release 1.1.0.0</i>

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of Materials Released

All physical media and associated documentation for the METOC Channels Segment are listed below.

- METOC Channels Segment v1.1.0.1 Installation tape (4mm DAT tape) for HP TAC-3/TAC-4/K570 computer running DII COE 3.1 or higher and the HP-UX 10.20 operating system.
- METOC Channels Segment v 1.1 Series Installation Procedures (IP), dated 23 April 1999
- METOC Channels Segment v 1.1.0.1 Software Version Description (SVD), dated 6 July 1999

3.2 Inventory of Software Contents

A listing of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

This version fixes some installation bugs found in Version 1.1.0.0 and adds a Channel Admin utility that can be accessed at http://localhost:8080/cgi-bin/MDCHNL/Channel_Admin .

3.4 Waivers

There are no waivers associated with this software.

3.5 Adaptation Data

There are no site-specific data for the METOC Channels segment.

3.6 Installation Instructions

The METOC Channels Segment v1.1 Series Installation Procedures (IP) referenced in Section 2 of this document provide comprehensive installation instructions for the METOC Channels Segment. The fully installed segment occupies approximately 200 MB of disk space. The software requires a minimum of 8 MB of RAM, with 16 MB recommended (above the operating system requirements).

3.7 Possible Problems and Known Errors

There are no known problems and errors with METOC Channels software.

4 NOTES

4.1 Glossary of Acronyms

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
IP	Installation Procedure
IP	Internet Protocol
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

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APPENDIX A List of Executables and Environment Files

A.1 File Structure for HP-UX 10.20 Delivery

```
/h/MDCHNL:  
total 18  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 .  
drwxrwxrwt 14 root root 3072 Jul 7 16:44 ..  
drwxr-xr-x 2 sysadmin other 1024 Jul 2 22:08 Scripts  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 23:03 SegDescrip  
drwxr-xr-x 2 sysadmin other 1024 Jul 2 22:08 bin  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 data  
drwxrwxr-x 2 sysadmin other 1024 Jun 22 20:22 install  
  
/h/MDCHNL/Scripts:  
total 14  
drwxr-xr-x 2 sysadmin other 1024 Jul 2 22:08 .  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 1238 Jul 1 23:37 .cshrc  
-rwxr-xr-x 1 sysadmin other 86 Jul 1 23:37 .cshrc.MDCHNL  
-rwxr-xr-x 1 sysadmin other 413 Jul 1 23:37 MDCHNLcreateDirs  
-rwxr-xr-x 1 sysadmin other 95 Jul 1 23:37 Start_Admin  
  
/h/MDCHNL/SegDescrip:  
total 38  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 23:03 .  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 853 Jul 1 23:37 DEINSTALL  
-rwxr-xr-x 1 sysadmin other 1450 Jul 1 23:37 FileAttrs  
-rw-rw-r-- 1 sysadmin other 143 Jul 1 23:37 Installed  
-rw-rw-r-- 1 sysadmin other 143 Jul 1 23:37 Installed.DII  
-rwxr-xr-x 1 sysadmin other 2713 Jul 1 23:37 PostInstall  
-rwxr-xr-x 1 sysadmin other 3406 Jul 1 23:37 PostInstall.log  
-rwxr-xr-x 1 sysadmin other 465 Jul 1 23:37 ReleaseNotes  
-rwxr-xr-x 1 sysadmin other 259 Jul 1 23:37 SegInfo  
-rwxr-xr-x 1 sysadmin other 300 Jul 1 23:37 SegName  
-rwxr-xr-x 1 sysadmin other 27 Jul 1 23:37 VERSION  
-rw-rw-rw- 1 root sys 126 Jul 2 23:03 Validated  
  
/h/MDCHNL/bin:  
total 1234  
drwxr-xr-x 2 sysadmin other 1024 Jul 2 22:08 .  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 2740 Jul 1 23:37 MDCHNLCreateBlob  
-rwxr-xr-x 1 sysadmin other 1437 Jul 1 23:37 MDCHNLDropBlob  
-rwxr-xr-x 1 sysadmin other 1333 Jul 1 23:37 MDCHNLGetDBSize  
-rwxr-xr-x 1 sysadmin other 614400 Jul 1 23:37 perl
```

fnmoc_MDCHNL_SVD_1101

```
/h/MDCHNL/data:  
total 14  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 .  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 Icons  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 Menus  
drwxrwxr-x 2 sysadmin other 24 Jun 22 20:22 PBOXES  
drwxrwxr-x 2 sysadmin other 1024 Jun 22 20:22 THINGS  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 cgi-bin  
  
/h/MDCHNL/data/Icons:  
total 6  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 .  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 257 Jul 1 23:37 MDCHNLIcons  
  
/h/MDCHNL/data/Menus:  
total 6  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 .  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 218 Jul 1 23:37 Menu.MDCHNL  
  
/h/MDCHNL/data/PBOXES:  
total 4  
drwxrwxr-x 2 sysadmin other 24 Jun 22 20:22 .  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
  
/h/MDCHNL/data/THINGS:  
total 2594  
drwxrwxr-x 2 sysadmin other 1024 Jun 22 20:22 .  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 177552 Jul 1 23:37 NP_NPOLE_IR.gif  
-rwxr-xr-x 1 sysadmin other 188240 Jul 1 23:37 PM_EPAC_IR.gif  
-rwxr-xr-x 1 sysadmin other 240170 Jul 1 23:37 PM_EPAC_VIS.gif  
-rwxr-xr-x 1 sysadmin other 174410 Jul 1 23:37 SP_SPOLE_IR.gif  
-rwxr-xr-x 1 sysadmin other 202540 Jul 1 23:37 US_CONUS_WWW_IR.gif  
-rwxr-xr-x 1 sysadmin other 257458 Jul 1 23:37 US_CONUS_WWW_VIS.gif  
-rwxr-xr-x 1 sysadmin other 3118 Jul 1 23:37 faq_jmv_gen.html  
-rwxr-xr-x 1 sysadmin other 5060 Jul 1 23:37 things-db.cdf  
-rwxr-xr-x 1 sysadmin other 6090 Jul 1 23:37 things-db.sql  
  
/h/MDCHNL/data/cgi-bin:  
total 158  
drwxrwxr-x 2 sysadmin other 1024 Jul 2 22:08 .  
drwxr-xr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 3515 Jul 1 23:37 Dynamic_List  
-rwxr-xr-x 1 sysadmin other 6466 Jul 1 23:37 cgi-db-common.pl  
-rwxr-xr-x 1 sysadmin other 5332 Jul 1 23:37 ch_clone_publisher  
-rwxr-xr-x 1 sysadmin other 30477 Jul 1 23:37 ch_edit  
-rwxr-xr-x 1 sysadmin other 15332 Jul 1 23:37 ch_wizard  
-rwxr-xr-x 1 sysadmin other 13386 Jul 1 23:37 channel_help  
-rwxr-xr-x 1 sysadmin other 54 Jul 1 23:37 whoami
```

```
/h/MDCHNL/install:  
total 62  
drwxrwxr-x 2 sysadmin other 1024 Jun 22 20:22 .  
drwxrwxr-x 7 sysadmin other 1024 Jul 2 22:08 ..  
-rwxr-xr-x 1 sysadmin other 134 Jul 1 23:37 create_tables  
-rwxr-xr-x 1 sysadmin other 551 Jul 1 23:37 deininstall_mdchnl  
-rwxr-xr-x 1 sysadmin other 364 Jul 1 23:37 dropdatabase  
-rwxr-xr-x 1 sysadmin other 7736 Jul 1 23:37 fillProducts.sql  
-rwxr-xr-x 1 sysadmin other 422 Jul 1 23:37 install_mdchnl  
-rwxr-xr-x 1 sysadmin other 2282 Jul 1 23:37 makeDB  
-rwxr-xr-x 1 sysadmin other 7485 Jul 1 23:37 makeProducts.sql  
-rwxr-xr-x 1 sysadmin other 2707 Jul 1 23:37 mdchnl_cds_scripts  
-rwxr-xr-x 1 sysadmin other 24 Jul 1 23:37 mdchnl_create_blob_inf  
-rwxr-xr-x 1 sysadmin other 19 Jul 1 23:37 mdchnl_create_file_inf  
-rwxr-xr-x 1 sysadmin other 11 Jul 1 23:37 mdchnl_drop_file_inf
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